



EMERGENCY EXECUTIVE ORDER 2012-05

WATER TREATMENT FACILITY WATER LEAK

**WHEREAS**, there is an emergency water line break located at the Water Treatment Facility; and

**WHEREAS**, a portion of waterline has failed and has been identified in a critical junction at the Water Treatment Facility; and

**WHEREAS**, the repairs cannot be made on a temporary basis without compromising service to the community; and

**WHEREAS**, the repairs require specialized equipment and expertise.

**NOW, THEREFORE**, I, Alfonso E. Ortiz, Jr. Mayor of the City of Las Vegas, New Mexico, do hereby direct staff to proceed in processing the Emergency Water Line Repair MCA Job Number: LVG094-20 for the safety and health of our Citizens of Las Vegas in the effort to preserve our precious commodity.

This order shall take effect immediately and shall remain in effect until such time Repairs are completed.

  
Alfonso E. Ortiz, Jr., Mayor

Dec. 7, 2012  
DATE

ENGINEERS ESTIMATE

# MOLZENCORBIN

City of Las Vegas

Water Treatment Plant Leak

Preliminary Construction Cost Estimate

December 7, 2012

Item No.	Description	Unit	Quantity	Unit Price	Amount
1	18x18x18 tapping sleeve/valve	EA	2	\$ 20,000.00	\$ 40,000.00
2	18x18x12 tapping sleeve/valve	EA	1	\$ 18,000.00	\$ 18,000.00
3	Temporary 12" by-pass-restrained	LS	1	\$ 8,000.00	\$ 8,000.00
4	18" BFV w/valve box and concrete collar	EA	6	\$ 15,000.00	\$ 90,000.00
5	Connect to existing CCP with butt straps	EA	3	\$ 9,000.00	\$ 27,000.00
6	18" tee with megplug restraints	EA	4	\$ 2,500.00	\$ 10,000.00
7	18" DIP with 3/4" crushed stone bedding	LF	200	\$ 400.00	\$ 80,000.00
	<b>Sub-total</b>				<b>\$ 273,000.00</b>
	Gross Receipts Tax @ 8.0625%				\$ 22,010.63
	<b>Total Estimated Construction Cost</b>				<b>\$ 295,010.63</b>

# MOLZENCORBIN

ENGINEERS | ARCHITECTS | PLANNERS

## Memorandum

To: Mr. Ken Garcia, City of Las Vegas

From: Douglas W. Albin *TRA*

Date: December 7, 2012

Re: Water Treatment Plant Water Leak

CC: Mike Rocco, AUI, Inc.

MCA Job Number: LVG094-20

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Ken:

The purpose of this memo is to provide you with attached sketch of the proposed improvements to the existing water piping at the Las Vegas Water Treatment Plant. Also attached is the lump sum cost proposal for \$285,595.00, schedule and equipment and labor rates that we received from AUI on December 6, 2012.

We also received a bid from TLC in the amount of \$335,120.21.

We understand that this proposed layout allows the work to be done without shutting down the water plant to make the connections under the assumption that the existing valve A is in place. The City indicated that the existing valves B, E and F do close and will shut the water off.

The contract with AUI will include a \$25,000 allowance for construction contingencies. AUI has provided their standard labor and equipment rates that include overhead and profit. The cost of additional materials shall be cost plus 15%.

AUI will be able to start on December 10, 2012 if they are given the Notice to Proceed by December 7, 2012. AUI indicated that the existing leak would stop on or about December 20, 2012 assuming they mobilize on December 10, 2012.

We understand that the City is considering having AUI perform additional work on the leak to try and further reduce the water loss prior to constructing the permanent repair. We discussed this with Mike Rocco at AUI yesterday and they are very reluctant to disturb the existing repair.

During the attempts they made last weekend to repair the leak it got worse. They are concerned that removing the existing temporary repair strap the leak could get worse and they may not be able to stop the water at all without turning off the water plant. We are also reluctant to recommend that the existing repair be disturbed for the same reasons.

Mike Rocco indicated that they would make another attempt at the City's request, but noted that it may not help and in fact be much worse.

The proposed improvements shown on the attached sketch will accomplish three things.

1. It will eliminate the existing leak on or about December 20, 2012.
2. It will remove and replace a critical portion of the existing yard piping at the water plant. This piping and valves were installed in about 1975. Some of the butterfly valves do not close and the piping appears to be in poor condition.
3. The proposed layout of the new piping will allow the City to connect the future 18" water line.

Please call me at 505.242.5700 if you have any questions or need additional information.

Calculated By RSDate 12/6/12

Checked By

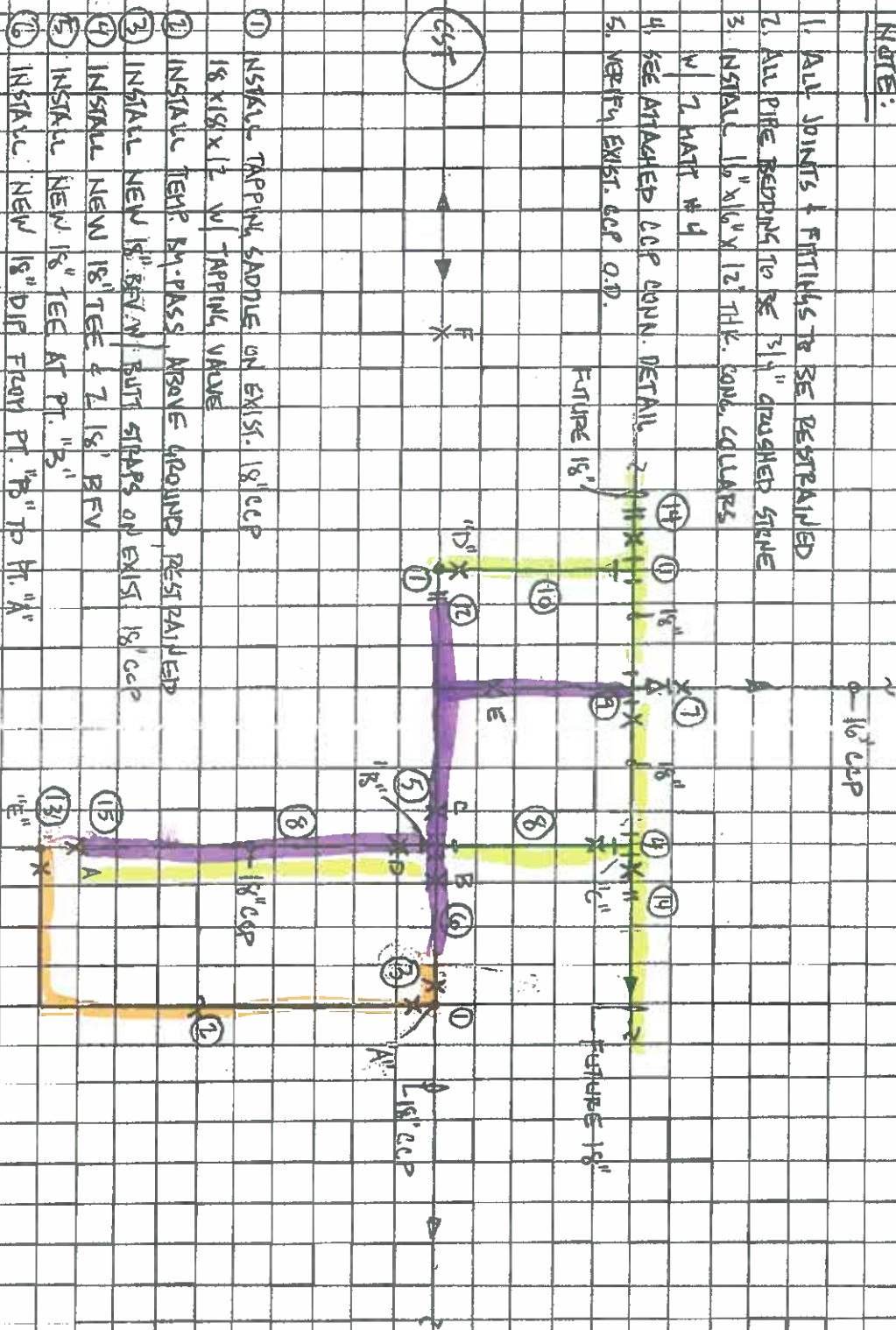
Date

Sheet No. 1Of 1Client LAS VEGASProject No. LV6 094-20Project WTP PIPE REPAIR / REPLACEMENTSubject REPAIR SKETCHNOTE:

1. ALL JOINTS & FITTINGS TO BE RESTRAINED
2. ALL PIPE BEDDING TO BE 3" CRUSHED STONE
3. INSTALL 16" x 16" x 12" THK. CONC. SQUARES W/ 2 MAT #4
4. SEE ATTACHED CCP DOWN DETAIL
5. VERIFY EXIST. CCP O.D.

11. INSTALL TAPPING SADDLE ON EXIST. 18" CCP  
18" x 18" x 12" W/ TAPPING VALVE
12. INSTALL TEMP. BY-PASS ABOVE GROUND, RESTRAINED
13. INSTALL NEW 18" BFN W/ BUTT STRAPS ON EXIST. 18" CCP
14. INSTALL NEW 18" TEE & 2 18" BFN
15. INSTALL NEW 18" TEE AT PT. "B"
16. INSTALL NEW 18" DIP FROM PT. "B" TO H. "A"
17. INSTALL NEW 16" BFN & BUTT STRAPS ON EXIST. 16" CCP
18. INSTALL NEW 18" DIP FROM VALVE A TO PT. "C" (10'±)
19. INSTALL NEW 18" TEE 18" x 16" RED & 18" BFN
20. INSTALL NEW 12" DIP (15'±)
21. INSTALL NEW 18" x 18" x 12" TEE & 18" BFN
22. INSTALL NEW B.F. W/ BUTT STRAPS ON 18" CCP
23. INSTALL 18" x 18" x 2" TAPPING SLEEVE ON EXIST. 18" STEEL/TAP
24. INSTALL NEW 18" BLIND FLANGE ON BFN

25. INSTALL NEW 18" BFN ON EXIST.  
STEEL/DIP AT PT. "C" IF REQD.

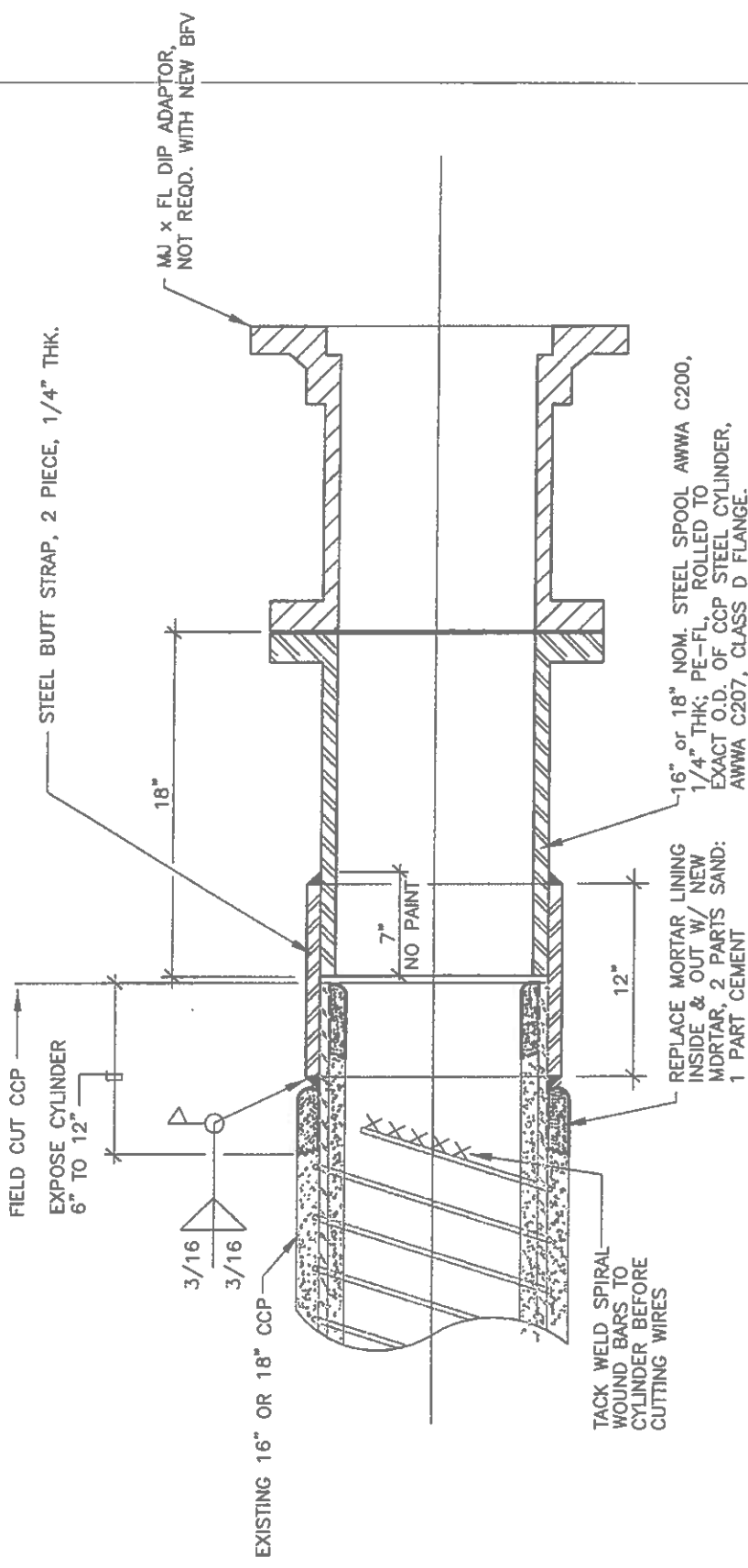


1" = 25'±



MOLZEN-CORBIN  
& Associates  
ENGINEERS/ARCHITECTS/PLANNERS

12/6/12



OUTSIDE COAT WITH:  
 BLAST NEAR WHITE SSPC-SP10,  
 1 COAT 16-20 MIL DFT TNESEC SERIES  
 46H-413 HI-BUILD TNESEC-TAR.  
 INSIDE COAT W/ CEMENT MORTAR LINING (CML)  
 W/ BITUMINIUS SEAL COAT, AWWA C104.

GENERAL NOTES

1. WELDERS SHALL BE QUALIFIED UNDER SECTION IX OF THE ASME BOILER AND PRESSURE VESSEL CODE.
2. CONTACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO MAKING CONNECTION TO THE EXISTING PIPE.

CCP CONNECTION DETAIL  
 SCALE: NONE

WTP LEAK REPAIR

Proposal  
AUI INC.

Job Code: FY12249  
Description: 18 Inch Emergency CCP Repair, Las Vegas, NM

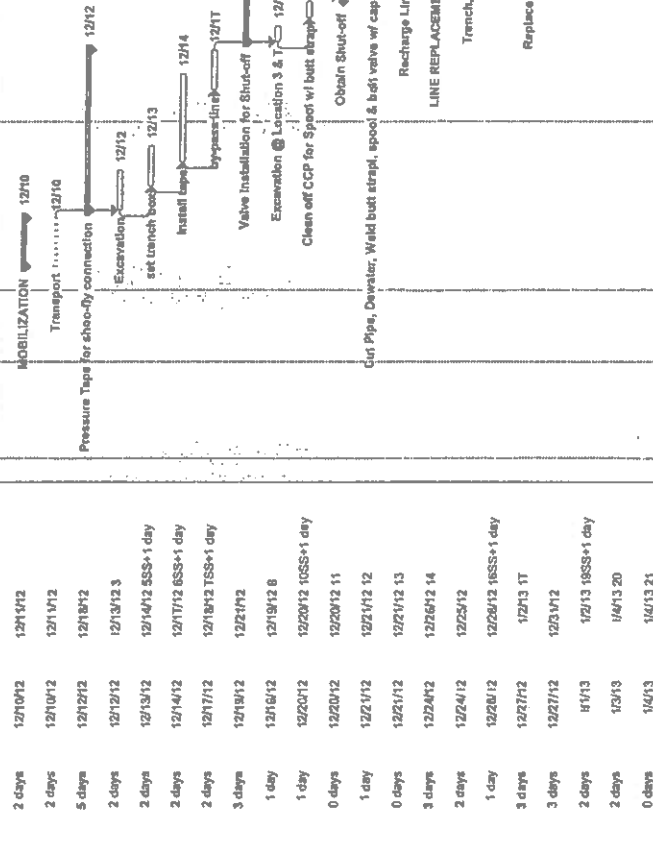
18" CCP REPAIR & REPLACEMENT						
Line No.	Pay Item No.	Description	Quantity	Unit of Measure	Unit Price	Total Price
1	1	18" CCP WATERLINE REPAIR & REPLACEMENT	1.00	LS	\$285,595.00	\$285,595.00
Subtotal:						\$285,595.00
GRAND TOTAL:						\$285,595.00

18" CCP REPAIR & REPLACEMENT Certification



# LAS VEGAS EMERGENCY CCP LINE REPAIR

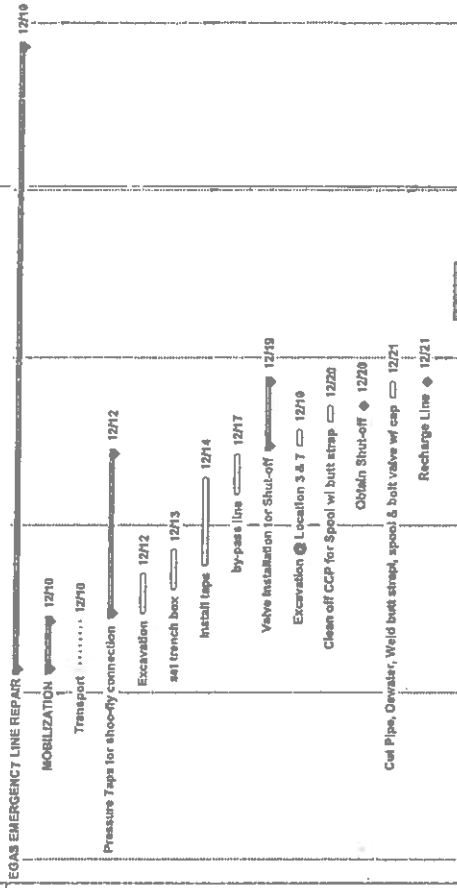
ID	Task Name	Duration	Start	Finish	Predecessors	Dec 2, '12	Dec 3, '12	Dec 4, '12	Dec 5, '12	Dec 6, '12	Dec 7, '12	Dec 8, '12	Dec 9, '12	Dec 10, '12	Dec 11, '12	Dec 12, '12	Dec 13, '12	Dec 14, '12	Dec 15, '12	Dec 16, '12	Dec 17, '12	Dec 18, '12	Dec 19, '12	Dec 20, '12	Dec 21, '12	Dec 22, '12	Dec 23, '12	Dec 24, '12	Dec 25, '12	Dec 26, '12	Dec 27, '12	Dec 28, '12	Dec 29, '12	Dec 30, '12	Jan 1, '13	
1	CITY OF LAS VEGAS EMERGENCY LINE REPAIR	20 days	12/10/12	1/4/13		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
2	MOBILIZATION	2 days	12/10/12	12/11/12																																
3	Transport	2 days	12/10/12	12/11/12																																
4	Pressure Taps for shoe-fly connection	5 days	12/12/12	12/18/12																																
5	Excavation	2 days	12/12/12	12/13/12	3																															
6	set trench box	2 days	12/13/12	12/14/12	5SS+1 day																															
7	Install taps	2 days	12/14/12	12/15/12	6SS+1 day																															
8	bypass line	2 days	12/17/12	12/18/12	7SS+1 day																															
9	Valve Installation for Shut-off	3 days	12/18/12	12/21/12																																
10	Excavation @ Location 3 & 7	1 day	12/18/12	12/19/12	8																															
11	Clean off CCP for Spool w/ butt strap	1 day	12/20/12	12/20/12	10SS+1 day																															
12	Obtain Shut-off	0 days	12/20/12	12/20/12	11																															
13	Cut Pipe, Downwater, Weld butt strap, spool & bolt valve w/ cap	1 day	12/21/12	12/21/12	12																															
14	Recharge Line	0 days	12/21/12	12/21/12	13																															
15	LINE REPLACEMENT A TO B	3 days	12/24/12	12/26/12	14																															
16	Trench, Install Pipe	2 days	12/24/12	12/25/12																																
17	Backfill	1 day	12/26/12	12/26/12	16SS+1 day																															
18	Replace CCP & Install New 18"	3 days	12/27/12	12/29/12	17																															
19	Trench, Install Pipe	3 days	12/27/12	12/30/12																																
20	Backfill	2 days	12/31/12	12/31/12	18SS+1 day																															
21	Valve Adjustments & Collars	2 days	12/31/12	1/1/13	20																															
22	DEMOBILIZATION	0 days	1/4/13	1/4/13	21																															



Project: LAS VEGAS	Critical	Task	Baseline	Milestone	Project Summary	Deadline
Date: 12/01/12	Critical Split	Split	Baseline Split	Summary	External Tasks	
	Critical Progress	Task Progress	Baseline Milestone	Summary	External Milestone	



ID	Task Name	Duration	Start	Finish	Predecessors
CITY OF LAS VEGAS EMERGENCY LINE REPAIR					
1	MOBILIZATION	20 days	12/10/12	1/4/13	
2	Transport	2 days	12/10/12	12/11/12	
3	Pressure Taps for shoo-fly connection	5 days	12/12/12	12/17/12	
4	Excavation	2 days	12/12/12	12/13/12	
5	set trench box	2 days	12/13/12	12/14/12	
6	install taps	2 days	12/14/12	12/17/12	
7	by-pass line	2 days	12/17/12	12/18/12	
8	Valve Installation for Shut-off	3 days	12/18/12	12/21/12	
9	Excavation @ Location 3 & 7	1 day	12/19/12	12/19/12	
10	Clean off CCP for Spool w/ butt strap	1 day	12/20/12	12/20/12	
11	Obtain Shut-off	0 days	12/20/12	12/20/12	
12	Cut Pipe, Dewater, Weld butt strap, spool & bolt valve w/ cap	1 day	12/21/12	12/21/12	
13	Recharge Line	0 days	12/21/12	12/21/12	
14	LINE REPLACEMENT A TO B	3 days	12/24/12	12/26/12	
15	Trench, Install Pipe	2 days	12/24/12	12/26/12	
16	Backfill	1 day	12/26/12	12/27/12	
17	Replace CCP & Install New 18"	5 days	12/27/12	1/2/13	
18	Trench, Install Pipe	3 days	12/27/12	12/31/12	
19	Backfill	2 days	1/1/13	1/2/13	
20	Valve Adjustments & Collars	2 days	1/3/13	1/4/13	
21	DEMOLITION	0 days	1/4/13	1/4/13	



**AUI Inc.**  
**Standard Manpower Rates for**  
**Las Vegas Emergency**

Description	Unit of Measure	Normal	Evening / Weekends	Holiday
Foreman 1	Hour	\$27.41	\$41.12	\$68.54
Foreman 2	Hour	\$32.57	\$48.88	\$81.44
Foreman 3	Hour	\$38.22	\$57.34	\$95.57
Laborer 1	Hour	\$20.14	\$30.01	\$50.34
Laborer 2	Hour	\$20.57	\$30.65	\$51.44
Laborer 3	Hour	\$21.15	\$31.52	\$52.88
Carpenter	Hour	\$23.49	\$34.98	\$58.74
Cement Mason	Hour	\$22.61	\$33.98	\$56.52
Iron Worker	Hour	\$38.23	\$53.88	\$95.57
Bricklayer,Blocklayer	Hour	\$25.80	\$38.55	\$64.52
Painter, spray or brush	Hour	\$45.36	\$65.70	\$113.42
Operator 1	Hour	\$22.93	\$34.24	\$57.33
Operator 2	Hour	\$23.21	\$34.67	\$58.05
Operator 3	Hour	\$24.06	\$35.92	\$60.15
Operator 4	Hour	\$24.08	\$35.96	\$60.20
Operator 5	Hour	\$24.06	\$35.94	\$60.15
Operator 6	Hour	\$24.29	\$36.29	\$60.72
Operator 7	Hour	\$24.36	\$36.39	\$60.93
Operator 8	Hour	\$24.58	\$36.72	\$61.44
Operator 9	Hour	\$25.30	\$37.80	\$63.25
Operator 10	Hour	\$38.39	\$57.44	\$96.00
Truck Driver 1	Hour	\$19.45	\$29.02	\$48.62
Truck Driver 2	Hour	\$19.73	\$29.45	\$49.34
Truck Driver 3	Hour	\$20.02	\$29.88	\$50.06
Truck Driver 4	Hour	\$20.31	\$30.31	\$50.77
Field Engineer	Hour	\$25.88	\$38.81	\$64.69
Project Manager	Hour	\$48.88	\$73.31	\$122.19
Superintendent	Hour	\$47.44	\$71.16	\$118.60

**AUI Inc.**  
**Standard Equipment Rates for**  
**Las Vegas Emergency**

Equipment	Unit of Measure	Rate
12" Pump & Power Unit	Hour	\$79.35
12" Pump Stand By & PU	Hour	\$48.30
Air Comp 200-400 CFM	Hour	\$28.75
Air Compressor 401-1300 CFM	Hour	\$92.00
Air Compressor 100-200 CFM	Hour	\$21.85
Asphalt Curb Machine	Hour	\$9.20
Asphalt Distributor Truck	Hour	\$63.25
Asphalt Paving Machine	Hour	\$210.45
Asphalt Pulverizer	Hour	\$273.70
Asphalt Street Broom	Hour	\$77.05
Asphalt Zipper	Hour	\$49.45
Backhoe W/ Breaker	Hour	\$83.95
Backhoe/Loader Rubber Tire	Hour	\$42.55
Compactor Jumping Jack	Hour	\$7.25
Compactor Pneumatic	Hour	\$32.20
Compactor St Wheel >55"	Hour	\$64.40
Compactor St Wheel 37-54"	Hour	\$42.55
Compactor Walk Behind	Hour	\$13.80
Concrete Curb Machine	Hour	\$98.90
Concrete Finisher Bidwell	Hour	\$166.75
Concrete Placer/Spreader	Hour	\$235.75
Crane 100 Ton	Hour	\$155.25
Crane Rough Terrain 15Ton	Hour	\$57.50
Crane Rough Terrain 50Ton	Hour	\$92.00
Dewatering Pump	Hour	\$41.40
Dozer 65 HP Light Duty	Hour	\$139.15
Dozer 85 HP Heavy Duty	Hour	\$154.10
Excavator 100k lb Breaker	Hour	\$182.85
Excavator 100k Pound Class	Hour	\$141.45
Excavator 150k Pound Class	Hour	\$211.60
Excavator 20k Pound Class	Hour	\$46.00
Excavator 40k Pound Class	Hour	\$59.80
Excavator 50k Pound Class	Hour	\$70.15
Excavator 70k Pound Class	Hour	\$105.80
Extruded Curb Machine	Hour	\$9.20
Fork Lift Rough Terrain	Hour	\$42.55
Generator 100 kv	Hour	\$23.00
Grading Tractor	Hour	\$34.50

**AUI Inc.**  
**Standard Equipment Rates for**  
**Las Vegas Emergency**

Equipment	Unit of Measure	Rate
HammerHead 20 Ton Winch	Hour	\$172.50
HammerHead 50 Ton Machine	Hour	\$139.15
HammerHead Mole	Hour	\$110.40
Light Plant	Hour	\$21.85
Loader 2.5 CY	Hour	\$42.55
Loader 4 CY	Hour	\$64.40
Loader 5 CY	Hour	\$92.00
Loader Skid Steer	Hour	\$34.50
Loader Skid Steer 1845	Hour	\$35.65
Masons Truck	Hour	\$29.90
McElroy Fusion Machine	Hour	\$34.50
Motor Grader	Hour	\$86.25
Rock Truck	Hour	\$128.80
Scraper 18 CY	Hour	\$230.00
SCREEN PLANT	Hour	\$113.85
Theodolite/GPS	Hour	\$11.50
Track Mounted Low Drill	Hour	\$243.80
Trailer Heavy Duty 2 Axle	Hour	\$20.70
Trailer Water Tank 7kgal	Hour	\$18.40
Trencher 1055	Hour	\$281.75
Trencher 955	Hour	\$246.10
Truck End Dump 18 CY	Hour	\$83.95
Truck Flat Bed 1 Ton	Hour	\$23.00
Truck Pick Up/PM	Hour	\$10.35
Truck Pick Up/Superintendent	Hour	\$17.25
Truck Service/Oiler	Hour	\$43.70
Truck Tandem Dump 12 CY	Hour	\$57.50
Truck Transport w/Trailer	Hour	\$83.95
Truck Water 4k gallon	Hour	\$57.50
Truck Welding	Hour	\$32.20
Vactor Truck	Hour	\$139.15
Vermeer Pot Hole Machine	Hour	\$35.65
Vibrating Hammer	Hour	\$161.00
Water Wagon 6k gallon	Hour	\$65.55
Wet Saw Felker Walk Behind	Hour	\$8.05
Wind Row Elevator	Hour	\$43.70